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(54) **VOYANT D'AVERTISSEMENT/D'INDICATION DE FREINAGE
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(54) **FRONT MOUNTED BRAKE WARNING/INDICATOR LIGHT**

(57) All current legal roadway vehicles have a brake light warning system to indicate when a vehicle is slowing and/or stopping, that is highly visible from the rear of the vehicle, unfortunately there is no such indicator of deceleration visible at the front of the vehicle. Currently it is left up to the judgement of the people in front of the vehicle to decide whether or not the vehicle is actually slowing and/or stopping. Improper judgement calls in these situations can be directly attributed to the cause of many of the accidents that occur between vehicles and other vehicles, vehicles and pedestrians, vehicles and cyclists, etc. The proposed invention reduces and/or eliminates the need for these frequent judgement calls, by providing for a brake light indicator on the front of the vehicle(s), thereby increasing roadway safety.

Abstract: All current legal roadway vehicles have a brake light warning system to indicate when a vehicle is slowing and/or stopping, that is highly visible from the rear of the vehicle, unfortunately there is no such indicator of deceleration visible at the front of the vehicle. Currently it is left up to the judgement of the people in front of the vehicle to decide whether or not the vehicle is actually slowing and/or stopping. Improper judgement calls in these situations can be directly attributed to the cause of many of the accidents that occur between vehicles and other vehicles, vehicles and pedestrians, vehicles and cyclists, etc. The proposed invention reduces and/or eliminates the need for these frequent judgement calls, by providing for a brake light indicator on the front of the vehicle(s), thereby increasing roadway safety.

Specification: A red light located on the front bumper of a vehicle will be activated simultaneous with the activation of the brakes by the vehicle operator. This red light indicator will be of sufficient size and brightness to easily provide an indication of the vehicles operator's intention respecting his deceleration and/or intent to stop.

Currently, most North American provinces and states have gone to the one rear mounted license plate configuration for all licensed vehicles. The area on the front of the vehicle which used to accommodate the license plate is now bare, providing for an ideal location in which to position a braking indicator. All manufacturers were providing both a mounting position and mounting attachments for front mounted license plates. The proposed invention provides for the use of the same existing mounting position and mounting attachments for the location of a forward mounted brake indicating signaler. In locals that still require the use of front license plates, the proposed invention will piggyback on the license plate mounts, in the same position as the previous example.

The proposed invention is easily attached to the existing brake system wiring through the use of a common electrical wire coupling device. This easily allowing the existing brake light indicating power systems to simultaneously power the new forward mounted warning light.

A further example of the proposed invention could allow for an intermittent pulse in the lighting element to further indicate the urgency of the brake pedal application. This proposed example would provide for a long slow pulse on initial brake pedal application, increasing incrementally with the urgency of the application, in such example, the faster the brake pedal is applied the faster the pulsing of the light element, this providing even more information to approaching traffic as to the state of the vehicles braking. Ie: it would be readily easy to tell if the vehicle is decelerating and also at what rate the operator is trying to slow and/or stop the vehicle. Both examples of the proposed

invention will reduce the individual judgement of approaching entities necessary for safe and accurate assessment of oncoming vehicle braking/slowing intentions.

The forward mounted brake warning/indicator light is easily produced using modern injection molding techniques and existing brake light elements. Further application of the proposed invention would allow for the integration of the system into new vehicular designs, allowing for optimization of the location of the indicator light and its visibility to all approaching traffic. This could be easily accomplished using modern CAD design programs, which are currently in widespread use throughout the vehicular design industry.

Drawings:

Figure 1: Shows a common automobile with the existing license plate mounting position (a) and the license plate attachment points (b).

Figure 2: Shows a common automobile with a license plate installed in the existing license plate mounting position (a) utilizing existing license plate attachment points.

Figure 3: Shows an example of the proposed invention with the mounting points (c), the red lens (d), the light element (e) and the wiring harness (f).

Figure 4: Shows the proposed invention located in the license plate mounting area (a), utilizing the existing attachment points (b), without a license plate in place.

Figure 5: Shows the proposed invention located in the license plate mounting area (a), utilizing the existing attachment points (b), with a license plate in place.

Figure 6: Shows the proposed invention integrated into the front bumper/fascia design of a modern automobile.

Claims: The embodiments of the invention in which exclusive property or privilege is claimed are defined as follows:

- 1) A forward mounted vehicle brake warning/indicating light for indicating the status of a vehicle's braking situation, easily visible to approaching traffic.
- 2) A forward mounted brake warning/indicating light that mounts on the front license plate attachment points that are currently placed by a manufacturer in the front bumper of a vehicle.
- 3) A forward mounted brake warning/indicating light that is integrated into a vehicles front bumper/fascia design, in a location that provides for optimum visibility of the indicating light.
- 4) A forward mounted brake warning/indicating light possessing an electrical wiring assembly that is easily integrated into existing rear brake wiring harnesses.
- 5) A forward mounted brake warning/indicating light that operates simultaneously with the illumination of the rear brake warning lights.
- 6) A forward mounted brake warning/indicating light that provides for a pulsing light element indicating the rate of brake pedals application to outside parties/sources.

FIG. 1

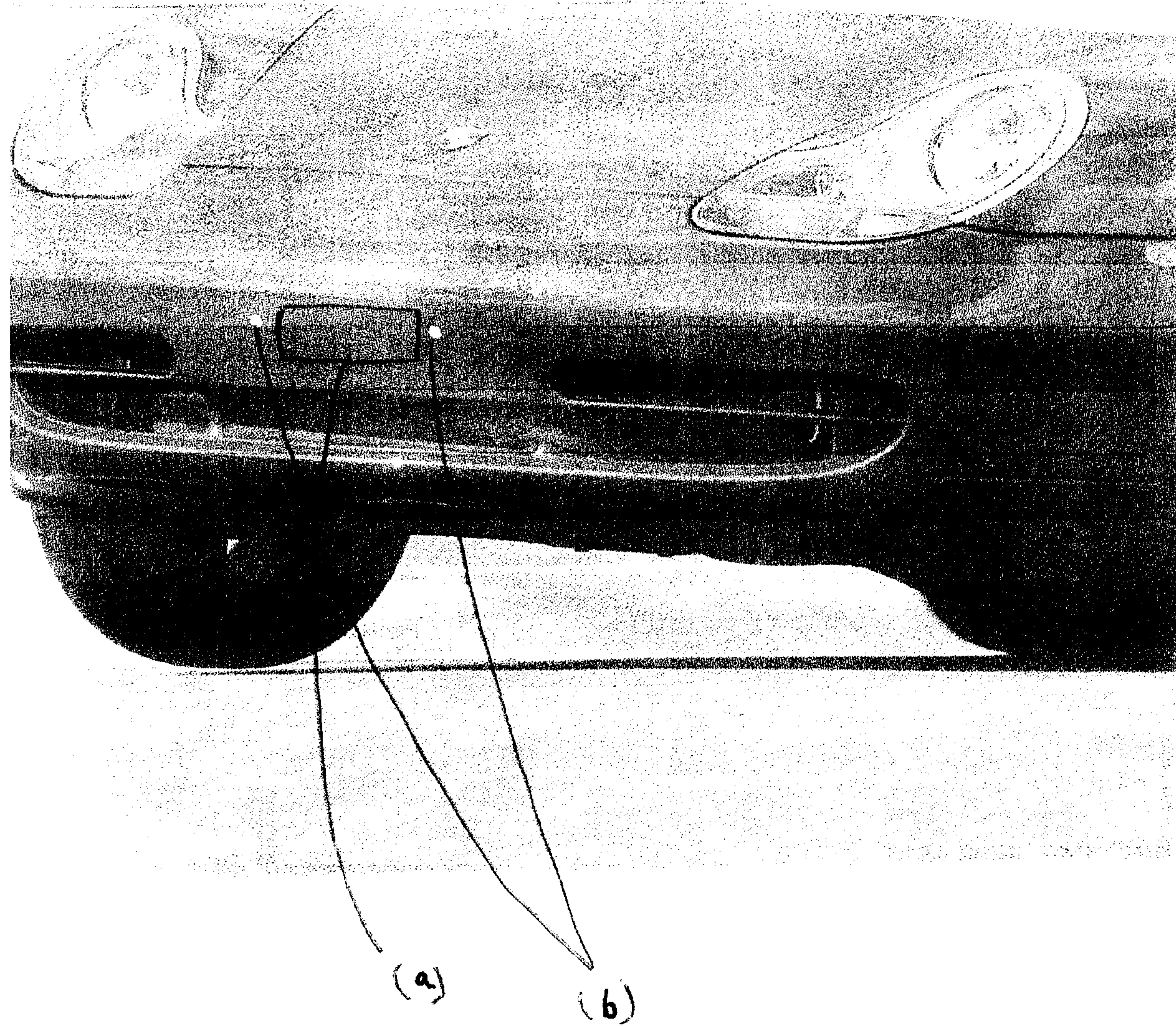


FIG. 2



(B)

(a)

FIG. 3

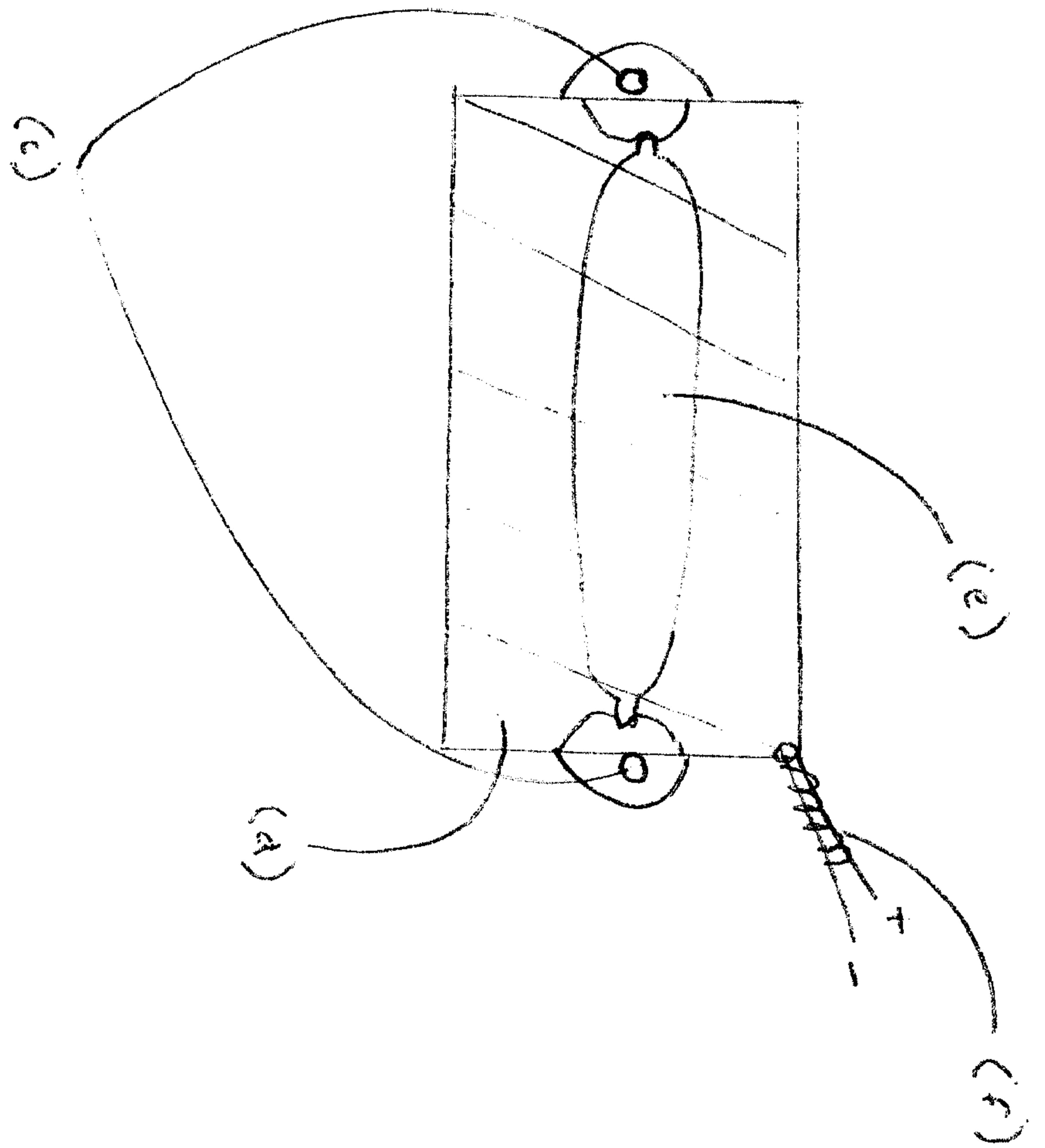
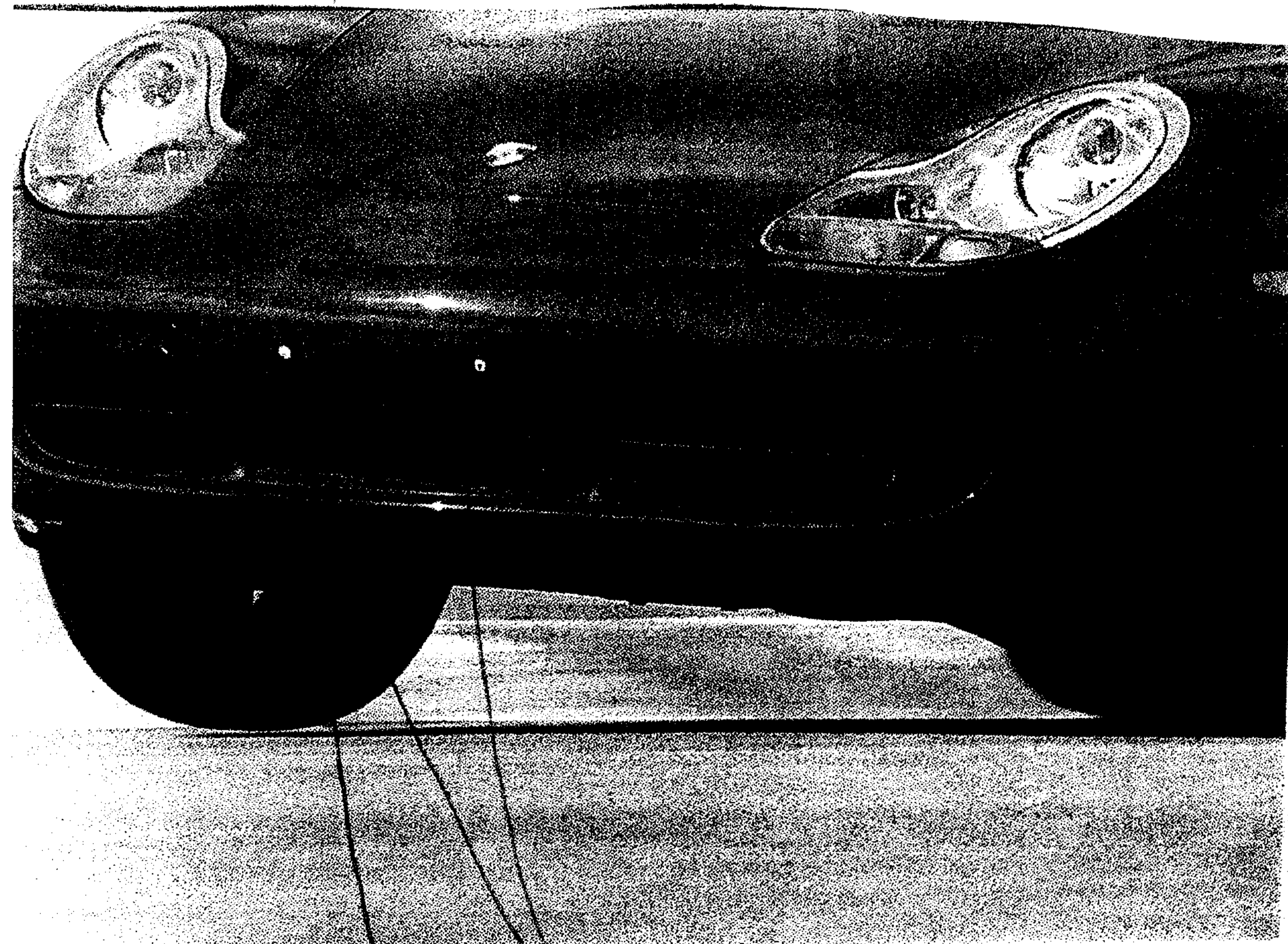


FIG 4.



(a)

(b)

FIG. 5



FIG. 6

